

CLAIMS

1. A method for call control by a called terminal device (MS-B) receiving a call via a communication network (IN-NW) for intelligent network services,
- 5 said network (IN-NW) comprising
 - a service control device (SCP, CSE) and a server device (WAP-SERVER) communicating with each other via an interface (WAP-I/F),
 - said service control device being connected to at
 - 10 least one service switching device (SSP, MSC, HLR, VLR) establishing communication via at least one radio access network (RAN, BSS) with said terminal device (MS), and
 - said terminal device (MS) being provided with a
 - 15 browsing means (WAP-UA) adapted to communicate with a user of said terminal device via a man machine interface means (MMI), and adapted to communicate with said server device,
 - the method comprising the steps of:
 - 20 receiving (S22) an incoming call at said service switching device (GMSC),
 - triggering (S23) a presentation service at said service control device (CSE, SCP);
 - if triggered, retrieving (S24-S26) information
 - 25 identifying a calling user of a terminal device (MS-A) from an external server;
 - providing (S27-S29) said information identifying said calling user of a terminal device (MS-A) to said called terminal device (MS-B);
 - 30 presenting (S30a) said information identifying said calling user of a terminal device (MS-A) at a browsing means of said man machine interface of said terminal device;
 - collecting (S31) a user input via said man machine
 - 35 interface (MMI) in response to said presentation,

providing (S32) information on said collected user input to said service control device, and

controlling (S33, S34) said received call by said service control device according to said collected user input.

2. A method according to claim 1, wherein

said presenting step involves the retrieval of at least part of the information identifying a calling user of a terminal device (MS-A) from at least one server containing said information.

3. A method according to claim 2, wherein

said browser means uses an application programming interface to said terminal device.

4. A method according to claim 1, wherein

said information identifying a calling user of a terminal device (MS-A) is a calling line identification information (CLIP).

5. A method according to claim 1, wherein

said information identifying a calling user of a terminal device (MS-A) is a calling name identification information (CNAP).

6. A method according to claim 2, wherein

said server is adapted to access a data base connected to said service control point (SCP, CSE), which data base contains said information identifying a calling user of a terminal device (MS-A).

7. A method according to claim 6, wherein

said information contained in said database comprises at least one of the following information items: a name

of a subscriber to said calling terminal device, a photo of the subscriber to said calling terminal device, and a web page address of said subscriber.

5 8. A method according to claim 1, wherein
said triggering step comprises the steps of
receiving a call establishment at said service
switching device; and
performing an inquiry to said service control
10 device.

9. A method according to claim 1, wherein
said triggering is effected by said service control
device (SCP, CSE), said server device (WAP-SERVER), or
15 said browsing means (WAP-UA).

10. A method according to claim 1, wherein
said controlling comprises one of the following control
actions: accepting, rejecting, diverting to voice mail
20 of the call.

11. A method according to claim 1, wherein
said information identifying the calling user of
the terminal is a URL.
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12. A method according to claim 11, wherein
said URL is communicated in a user-to-user
signaling.

30 13. A method according to claim 11, wherein
said URL is inquired from a service control device
(SCP) of a calling party operator using a calling party
number.

35 14. A method according to claim 11, wherein

said URL is determined according to a calling party number comprising at least a network operator prefix and a subscriber extension.

- 5 15. A method according to claim 11, wherein
said calling user determines in a determination step whether, and, if yes, which URL is to be presented to the browsing means.
- 10 16. A method according to claim 11, wherein
said URL is determined based on a called user number comprising at least a network operator prefix, a subscriber extension and an additional content included as a content selector.
- 15 17. A method according to claim 11, wherein
a content addressed by said URL contains call control macro instructions which are expandable into executable content methods in a proxy server device or
20 a WAP server device retrieving the URL.
18. A method according to claim 17, wherein
said proxy server or said WAP server include a call control related part to calling user specified
25 content.
19. A method according to claim 7, wherein
said name of the subscriber to said calling terminal device (MS-A) is inquired from the browsing
30 means via a USSD request issued by the browsing means.
20. A method according to claim 1, wherein
said presenting step comprises the step of:

generating a content containing said information identifying said calling user in said terminal device or browser means.

- 5 21. A method according to claim 1, wherein said presenting step comprises the following steps:

generating a content containing said information identifying said calling user, and

- 10 pushing the content comprising said information identifying said calling user to the called terminal device (MS-B).

- 15 22. A method according to claim 21, wherein said generating is performed in said server device or said service control means.

- 20 23. A method according to claim 21, wherein said pushing is performed using WTA service indication mechanism and content retrieval following it.

24. A method according to claim 21, wherein said pushing is performed using WAP content push mechanism.

- 25 25. A method according to claim 20, wherein said generating step comprises the following steps:
composing at least one address to said information identifying said calling user,
retrieving at least part of said information from a server using said address.

- 30 26. A method according to claim 25, wherein said composing step involves extraction of said address from call set-up information.

27. A method according to claim 25, wherein
said composing step involves retrieval of said
address from a server providing mapping from pieces of
5 call set-up information into addresses to said
information identifying said calling user.
28. A method according to claim 25, wherein
said composing step involves deduction of said
10 address from call set-up information using syntax
mapping.
29. A method according to claim 21, wherein
said information identifying said calling user is
15 appended with content for collecting said user input.
30. A method according to claim 1, wherein said
identifying said calling user is content executable in
said browser means (HTML, WAP, WML, JAVA).
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31. A method according to claim 21, wherein said
information identifying said calling user is translated
by replacing abstract macro instructions into call
instructions for the terminal or the service control
25 device.
32. A method according to claim 21, wherein said
information identifying said calling user is translated
from a template document into content executable in
30 said browser means containing also call control
instructions for the terminal or the service control
device.
33. A method according to claim 27, wherein
35 said address is an internet URL.

34. A method according to claim 27, wherein
said pieces of call set-up information include calling
party number and/or content selector information
5 included in a called number of the called terminal
device.

35. A method according to claim 34, wherein said
content selector is provided by the calling user by
10 dialing a prefix to the called number.